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Shingleton OCT 01 2004

IN THE CLAIMS:

- 1 1. (Previously presented) An electronically tuned circuit, comprising a power amplifier
2 coupled to an electronically tunable output network, said power amplifier capable of
3 being operated in a large-signal mode, said output network including an electronically
4 tunable reactive component, wherein electronic tuning of said electronically tunable
5 reactive component includes non-motor operated electronic tuning when said power
6 amplifier is operated in said large-signal mode, further wherein a control line extends
7 to said electronically tunable reactive component for electronically varying reactance
8 of said reactive component over more than two values, wherein said control line
9 extends from a device configured to provide for varying voltage on said control line
10 over more than two voltages.
- 1 2. (Previously presented) An electronically tuned circuit as in claim 1, wherein said
2 output network is adapted to be tuned to a selected frequency.
- 1 3. (Previously presented) An electronically tuned circuit as in claim 1, wherein said
2 output network is adapted to be adjusted to maintain a match with a varying load
3 impedance.
- 1 4. (Previously presented) An electronically tuned circuit as in claim 1, wherein said
2 output network is adapted to modulate the signal at said network output.
- 1 5. (Previously presented) An electronically tuned circuit as in claim 4, wherein said
2 output network is further adapted to provide a power-amplifier load-impedance locus
3 that substantially maximizes power-amplifier efficiency.
- 1 6. (Previously presented) An electronically tuned circuit as in claim 4, wherein said
2 output network is further adapted to follow a substantially resistive power-amplifier
3 impedance locus, thereby maintaining power-amplifier efficiency near maximum.

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